

CLIMATOLOGICAL DATA FOR OCTOBER, 1912.

DISTRICT No. 8, TEXAS AND RIO GRANDE VALLEY.

B. BUNNEMEYER, District Editor.

GENERAL SUMMARY.

The mean temperature and the monthly precipitation for the district as a whole averaged about normal although there was a wide range in the departures from the normal of both elements. An unusual feature in connection with the distribution of temperature and precipitation consisted of a general deficiency of both elements in the western portion of the district and a general excess in the eastern portion. Killing frosts or freezing temperatures were general in Colorado and in nearly all portions of New Mexico during the second and third decades, while in Texas they occurred only on the 15th, 22d, and 23d in a few northwestern counties. In all sections the highest and lowest temperatures of the month were well within previous records.

Sunshine was abundant, and the weather was generally pleasant and favorable for outdoor work. Perhaps the most noteworthy feature of the weather was the tropical storm that entered Texas near Brownsville on the 16th and caused heavy rains in the southern, central, and north-central portions of Texas, which were of incalculable benefit as they relieved the drought in southwestern and central Texas and put the ground in good condition for fall plowing. A special report of this storm will be found elsewhere in this summary. In the western portion of the district nearly all the precipitation occurred during the first decade. The snowfall was generally light and confined almost entirely to the higher northern districts. At some of the mountain stations nearly all the precipitation was in the form of snow and the greatest monthly amount was 34.7 inches at Platoro, Colo. The average number of days with 0.01 inch or more of precipitation was 6 in Colorado and 4 in New Mexico and in Texas.

The greatest and least monthly amounts of precipitation were, respectively, in Colorado, 4.10 inches at Platoro and 0.35 inch at Manassa; in New Mexico, 2.07 inches at Anchor Mine and 0.10 inch at Torrance; and in Texas, 13.53 inches at Brownsville and 0.13 inch at Marathon. Excessive precipitation of 2.50 inches or more in 24 consecutive hours occurred at 43 stations in Texas, mostly in the southern and central portions of the State. The heaviest amount was 6.34 inches at Brownsville on the 16th.

TEMPERATURE.

The monthly mean temperature was 0.2° below the normal in Colorado, 1.2° below in New Mexico, and 1.5° above in Texas. The mean daily range of temperature varied from 10° on the upper Texas coast to 38° in the northwestern portion of the district, and there were no unusually violent changes during the month. The warmest periods occurred from the 3d to 12th and from

the 17th to 20th, while comparatively cold weather prevailed from the 14th to 16th, 22d to 24th, and 29th to 31st.

The highest and lowest temperatures reported were, respectively, in Colorado, 75° at Saguache on the 28th and 1° at Hermit on the 31st; in New Mexico, 91° at Carlsbad on the 18th and 10° at Virsylvia on the 28th; and in Texas, 101° at Fort McIntosh on the 12th and 30° at Albany on the 23d. The local monthly means ranged from 34.2° to 46.6° in Colorado, from 42.8° to 60.6° in New Mexico, and from 60.2° to 76.6° in Texas.

PRECIPITATION.

The average precipitation for the Rio Grande watershed was 1.45 inches, which is somewhat greater than the normal amount. Above Del Rio, Tex., the precipitation was generally deficient, except over a short stretch in southern New Mexico, but below that station the monthly amounts were from two to four times greater than the normal.

The average for the Rio Pecos watershed was 0.77 inch, which is 0.55 inch less than the normal. The deficiency, however, was quite uniformly distributed throughout the watershed.

Most of the Texas watersheds received a surplus of moisture. Heavy rains occurred over the Nueces, San Antonio, Guadalupe, Lavaca, and the greater portions of the Colorado and Brazos watersheds. The coastal plains also received more than the normal rainfall, except over the extreme eastern portion, but the three eastern watersheds, comprising the Trinity, Neches, and Sabine, showed decided deficiencies, which ranged from 0.45 inch for the Trinity watershed to 2.23 inches for that of the Sabine. There were, however, good local rains in the middle and upper portions of the Trinity drainage basin. The excesses in the watersheds west of the Trinity ranged from 0.08 inch for the Brazos to 1.55 inches for the Lavaca. The following are the average monthly amounts in inches and hundredths for the various Texas watersheds: Nueces, 3.55; San Antonio, 3.32; Guadalupe, .3.76; Lavaca, 4.74; Colorado, 2.79; Brazos, 3.00; Trinity, 2.36; Neches, 1.54; Sabine, 1.36; and coastal plains, 4.42.

RIVER CONDITIONS.

There was ample water in the Rio Grande and Rio Pecos for irrigation and for stock. The Texas streams continued comparatively low, except that sharp but temporary rises occurred in the Colorado and in the Brazos from heavy rains over their extreme upper portions on the 7th and 8th. The rains of the 15th-17th, while much heavier and covering a much larger area of the State, had hardly any effect on the streams, because of previous droughty conditions.

HURRICANE OF OCTOBER 11-16, 1912.

The tropical storm that moved inland over the lower Texas coast between Corpus Christi and Brownsville on October 16 originated apparently in the Caribbean Sea. It was first announced by the central office of the Weather Bureau on Friday, October 11, but as the storm was far south no definite information as to its character could be given out. On October 13 it had apparently entered the Gulf of Mexico, and northeast storm warnings were ordered displayed that night from the mouth of the Appalachicola River to the mouth of the Rio Grande. On October 14 heavy rains and squally weather on the middle Gulf coast indicated the storm to be near the central or south-central portion of the Gulf. The barometric pressure at this time was above the normal at all Gulf coast stations, and it was rising on the Louisiana and Florida coasts and beginning to fall on the Texas coast. On Tuesday morning, October 15, there was a difference of 0.16 inch between the barometric pressures at Corpus Christi and at Brownsville. The difference increased as the day advanced, and at the morning observation of October 16 it amounted to 0.46 inch, the former station reporting a barometer reading (reduced to sea level) of 29.86 inches and the latter of 29.40 inches. In the meantime a steady rain set in along the entire Texas coast and the weather continued squally, with high tides and rising winds, and it became evident that the storm was approaching the mouth of the Rio Grande. Immediately after the evening observation of October 15 hurricane warnings were ordered displayed from Port Lavaca, Tex., to Brownsville, Tex., while storm warnings continued on the Texas coast east of Port Lavaca.

On Wednesday, October 16, the storm moved inland between Corpus Christi and Brownsville, decreasing rapidly in energy and breaking up on October 17 as an independent storm with general and heavy rains over the eastern two-thirds of Texas. Advices of the progress of the storm were received daily from the central office of the Weather Bureau and widely disseminated. In consequence there were no marine disasters, except that of the steamship *Nicaragua*, which sailed from Tampico, Mex., October 11, for Port Arthur, Tex., on the day when the storm was first observed in the Caribbean Sea, and could not therefore be warned. This vessel foundered on October 16 about 100 miles southeast of Corpus Christi. The following is an extract from the report of this storm, made by Mr. Joseph L. Cline, local forecaster, in charge of the Weather Bureau office at Corpus Christi:

Northeast storm warnings were displayed at this station October 14 and 15, and hurricane warnings were received at 9.30 p. m. October 15 and displayed until sunset of the 16th. These warnings were given

wide distribution, were highly appreciated, and of great value to the public in preventing vessels from being out of harbor during the disturbance. Northerly winds prevailed for several days at this station, shifting to the east on October 16. The maximum wind velocity was 30 miles from the north on the 14th and 37 miles from the north on the 15th. On the 16th storm velocities prevailed from 12.03 a. m. to 8.18 a. m. with a maximum velocity of 51 miles from the north at 4.10 a. m., and from 6.32 p. m. to 7.46 p. m. with a maximum velocity of 40 miles from the southeast at 7.05 p. m.

The wind lulled and shifted to the southwest during the night of October 16-17. Rain fell from 4.57 a. m. to 7.14 p. m. of October 15, and from 7.52 p. m. of the 15th to 5.33 p. m. of October 16. The total amount was 3.99 inches of which 3.33 inches fell in 22 hours and 50 minutes from 4.31 p. m. of the 15th. The barometric pressure remained above 30 inches until the afternoon of October 15, when it commenced falling and continued to fall until the afternoon of the 16th, reaching the lowest, 29.75 inches about 5 p. m.

Moderately high tides were reported on the morning of October 16, doing several hundred dollars damage to property on Harbor Island and nearly \$1,000 damage to the municipal wharf now under construction at this place. Considerable damage was reported from Point Isabel near Brownsville, Tex. No other damage was reported, except the sinking of the steamer *Nicaragua* in the Gulf of Mexico east of Padre Island, or southeast of Corpus Christi, on the morning of October 16. This boat sailed from Tampico, Mex., October 11 for Port Arthur, Tex., loaded with cotton and miscellaneous freight valued at \$20,000. It had a length of 286 feet and a net tonnage of 310 tons and was owned by the Cia Consolidada de Maderas, of Tampico, Mex. The crew consisted of 27 men. Capt. E. Eschevarra and 12 members of his crew were picked up in the Gulf of Mexico by members of the United States life-saving station at Port Aransas, Tex., on the afternoon of October 22. They were in two lifeboats. The captain believes that six of the crew were lost at the time the vessel foundered and that the others may still be drifting in lifeboats somewhere along the south Texas shore line. (Sinking of *Nicaragua* taken from newspaper reports.)

Considerable damage was caused along the Texas coast between Rockport and Brownsville by wind and tide. Padre and Brazos Islands were reported submerged for several hours and a number of buildings were washed away. At Point Isabel, a fishing station about 22 miles from Brownsville, the damage to buildings and fishing boats is estimated at \$7,000. At Brownsville several windmills were wrecked, trees were blown down, and poorly constructed buildings more or less damaged. No loss of life was reported. The total damage, however, is insignificant when compared with the benefits resulting from the heavy rains accompanying this storm. About two-thirds of the entire area of Texas received a copious supply of moisture, the amounts ranging from 1 to over 5 inches, which not only relieved the droughty conditions existing in many localities, but also prepared the ground for fall plowing and sowing. By far the greater portion of the moisture soaked into the ground as evidenced by an extremely small run-off. The heaviest rainfall occurred at Brownsville, where the total amount from this storm measured 8.26 inches, and in a large number of localities northward as far as Corsicana the amounts ranged from 4 to 5 inches.

MONTHLY WEATHER REVIEW.

OCTOBER, 1912

TABLE 1.—Climatological data for October, 1912. District No. 8, Texas and Rio Grande Valley.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.	Prevailing wind direction.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeasured.	Number of rainy days, 0.01 inch or more.						
<i>Colorado.</i>																					
Blanca.	Costilla.	7,865	3	40.1	.....	66	3†	12	22	46	0.71	.....	0.55	T.	2	18	8	5	w.	Lewis F. Botens.
Cumbres.	Conejos	10,015	5	.....	.....	323	.....	323	.....	323	0.99	15.0	7	11	12	8	sw.	Mrs. Ida M. Lively.		
Garnett.	Costilla.	7,576	19	42.2	-0.2	70	3†	10	22	49	0.39	-0.24	0.18	3	13	11	7	sw.	Chas. Speiser.		
Hermit.	Hinsdale.	9,843	5	34.2	.....	64	11†	1	31	53	2.41	.....	1.06	25.0	7	15	6	10	.....	Marion Mason.
La Veta Pass.	Costilla.	9,000	2	.....	.....	.....	.....	.....	.....	1.75	.....	0.72	5.6	4	3	18	8	5	sw.	Clara M. Wright.
Manassa.	Conejos.	7,700	6	43.6	.....	71	3†	13	22†	53	0.35	.....	0.26	3	18	8	5	sw.	J. B. Chapman.	
Platoro.	do.	7,675	5	.....	.....	71	3†	31	41	4.10	.....	1.02	34.7	15	16	6	9	sw.	Walter R. Hook.	
Saguache.	Saguache	7,740	20	46.6	+ 1.0	75	28	19	22	48	0.50	-0.24	0.30	2.5	4	10	10	11	w.	Eugene Williams.	
San Luis.	Costilla.	7,794	21	44.9	-0.3	74	18	15	29	50	1.00	-0.05	0.87	1.5	4	19	12	0	sw.	P. B. Albright.	
Wagon Wheel Gap Experiment Station.	Mineral.	9,235	1	36.6	-1.4	59	18	12	31	36	2.41	+ 1.08	0.60	16.6	15	16	4	11	n.	U. S. Weather Bureau.	
<i>New Mexico.</i>																					
Agricultural College.	Dona Ana.	3,863	51	58.8	-3.2	83	19	31	29	42	0.98	+ 0.28	0.35	0	6	22	4	5	se.	N. Mex. Agricultural College.	
Alamogordo (near).	Otero.	4,338	15	57.4	-2.6	81	4	30	31	38	1.56	+ 0.76	0.58	0	5	25	2	4	sw.	Edward LeBreton.	
Alamogordo.	do.	4,320	3	1.60	0.52	0	6	Agent E. P. & S. W. R. R.
Alamos Ranch.	Sandoval.	7,800	2	.....	.....	.....	.....	.....	.....	1.34	.....	0.65	0	3	26	0	5	sw.	H. H. Brooks.	
Albuquerque.	Bernalillo.	5,000	36	.....	.....	.....	.....	.....	.....	0.29	-0.41	0.18	0	4	19	7	5	.....	Pitt Ross.	
Ancho.	Lincoln.	6,112	3	.....	.....	.....	.....	.....	.....	0.53	.....	0.36	0	4	.....	.....	.....	.....	.....	Agent E. P. & S. W. R. R.
Anchor Mine.	Taos.	10,600	1	.....	.....	.....	.....	.....	.....	2.07	.....	0.42	17.8	11	12	7	12	w.	C. H. Brigham.	
Artesia.	Eddy.	3,350	4	59.7	.....	89	18	30	30†	49	0.79	.....	0.40	0	3	21	5	5	se.	W. Benson.
Aspen Grove.	Rio Arriba.	9,000	3	.....	.....	.....	.....	.....	.....	1.46	.....	0.49	4.2	6	10	19	2	.....	J. D. Maupin.	
Banks.	Roosevelt.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Haron Hawkins.
Bateman's Ranch.	Rio Arriba.	8,900	3	.....	.....	.....	.....	.....	.....	1.71	.....	0.45	2.7	6	19	10	2	w.	J. W. Bateman.	
Berino.	Dona Ana.	3,788	1	.....	.....	.....	.....	.....	.....	0.85	.....	0.27	0	5	27	2	2	.....	J. C. Rishaberger.	
Bluewater.	Valencia.	6,732	10	47.0	-1.2	78	11	12	29	60	0.25	-0.74	0.20	T.	2	12	19	0	w.	Bluewater Development.	
Boaz.	Chaves.	4,154	3	57.8	.....	83	4†	29	11	50	1.31	.....	0.63	0	4	25	3	3	sw.	D. C. Savage.
Capitan.	Lincoln.	6,348	3	.....	.....	.....	.....	.....	.....	0.38	.....	0.38	0	1	10	8	13	sw.	Agent E. P. & S. W. R. R.	
Carlsbad.	Eddy.	3,120	17	60.2	-3.0	91	18	33	17	51	0.77	-0.40	0.38	0	3	21	7	3	sw.	U. S. Reclamation Service.	
Carrizozo.	Lincoln.	5,429	4	55.4	.....	76	3†	32	15†	38	0.43	.....	0.33	0	2	24	7	0	sw.	Agent E. P. & S. W. R. R.
Cerrillos (near).	Santa Fe.	5,700	14	55.4	.....	75	18	13	31	51	0.30	.....	0.20	0	2	12	17	2	sw.	Irving C. Sweet.
Chama.	Rio Arriba.	7,851	14	43.6	-3.4	68	3	19	29	41	2.02	+ 0.50	0.70	3.5	7	20	10	1	sw.	F. C. Johnson.	
Cloudcroft.	Otero.	8,650	10	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Agent E. P. & S. W. R. R.
Corona.	Lincoln.	6,666	3	51.4	.....	70	19	26	15	42	0.55	.....	0.33	0	2	14	16	1	sw.	Do.
Coyote.	do.	5,800	3	.....	.....	.....	.....	.....	.....	0.74	.....	0.29	0	4	28	1	2	sw.	Do.	
Cundiyo.	Santa Fe.	6,889	3	.....	.....	.....	.....	.....	.....	1.05	.....	0.73	0	4	22	3	6	w.	J. Vigil.	
Demonstration Farm.	San Miguel.	6,500	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	Erb & Westerman.
Duran.	Torrence.	6,272	3	54.4	.....	74	3†	28	22†	40	0.55	.....	0.30	0	2	22	5	4	.....	Agent E. P. & S. W. R. R.
Escondido.	Otero.	4,014	3	.....	.....	.....	.....	.....	.....	1.19	.....	0.45	0	5	27	1	3	se.	Do.	
Espanola.	Rio Arriba.	5,590	14	52.2	+ 0.4	78	4†	22	22	50	0.25	-0.72	0.23	0	2	24	1	1	sw.	Mrs. E. F. McBride.	
Estancia.	.....	6,140	7	47.4*	.....	84	8	14	23	63*	0.16	-1.07	0.05	T.	4	11	11	9	sw.	Geo. H. Van Stone.
Fort Stanton.	Lincoln.	6,231	35	52.4	+ 0.5	80	4	26	16	49	1.18	-0.18	0.65	T.	3	21	8	2	se.	U. S. Sanitarium.	
Fort Sumner.	Guadalupe.	3,960	4	55.2	.....	86	18	28	22	53	0.59	.....	0.31	0	5	24	4	3	sw.	Peter Yockey.
Gallinas.	Lincoln.	6,635	3	.....	.....	.....	.....	.....	.....	0.80	.....	0.50	0	2	21	3	7	w.	Agent E. P. & S. W. R. R.	
Gallinas Planting Sta.	San Miguel.	7,500	5	47.6	.....	75	18	13	31	51	1.05	.....	0.47	5.0	5	19	10	2	e.	U. S. Forest Service.
Glorietta Ranch.	Socorro.	5,700	2	.....	.....	.....	.....	.....	.....	0.98	.....	0.45	0	4	24	6	1	s.	C. M. Crossman.	
Harvey's Upper Ranch.	San Miguel.	9,400	3	42.8	.....	65	17	13	31	35	1.41	.....	0.52	5.5	6	23	6	2	w.	R. B. Schoonmaker.
Hillsboro.	Sierra.	5,224	14	.....	.....	.....	.....	.....	.....	1.33	.....	0.40	0	6	14	16	1	sw.	E. D. Tittman.	
Hondo Reservoir.	Chaves.	3,904	3	57.5	.....	87	18	30	22†	49	0.81	.....	0.35	0	5	23	4	4	s.	U. S. Reclamation Service.
Jemez Springs.	Sandoval.	6,100	2	50.0	.....	70	3†	27	29	34	1.05	.....	0.70	T.	4	19	5	7	sw.	Mrs. L. L. Shields.
Knowles (near).	Eddy.	4,300	2	59.8	.....	85	6	33	22	43	0.97	.....	0.53	0	5	23	6	2	sw.	J. W. Mosley.
Laguna.	Valencia.	5,840	7	51.8	.....	76	3†	20	29	43	1.25	.....	1.26	0	1	.....	.....	.....	Gus Weiss.	
Lagunita.	Guadalupe.	4,500	7	52.8	.....	80	18†	24	31	50	0.15	.....	0.08	0	2	24	3	4	se.	P. A. Turnbull.
Lake Valley.	Sierra.	5,412	7	58.8	.....	87	18†	30	31	50	0.98	.....	0.40	0	6	14	16	1	sw.	Wm. P. Keil.
Lake Wood (near).	Eddy.	3,170	17	58.8	-1.1	76	18	23	14†	50	0.49	-0.59	0.40	T.	3	24	4	3	se.	Mrs. Josephina K. Boyd.	
Las Vegas.	San Miguel.	6,385	25	48.6	-1.1	1	1.1	31	49	50	0.98	.....	0.40	0	5	18	7	6	s.	N. Mex. Normal University.
Liston.	Chaves.	5,000	2	.....	.....	.....	.....	.....	.....	0.75	.....	0.45	0	3	18	7	6	s.	R. Pohl.	
Los Lunas (near).	Valencia.	4,900	23	52.6	-1.1	78	4†	24	31	45	0.30	-0.62	0.30	0	1	16	14	1	sw.	Wm. Pender.	
Magdalena.	Socorro.	6,557	7	50.2	.....	74	20	24	31	39	0.84	.....	0.30	T.	5	13	16	2	w.	Rev. R. H. Harper.
Mescalero.	Otero.	6,627	1	49.4	.....	73	4	21	31	35	1.61	.....	0.50	0	6	22	4	5	sw.	W. M. Nelson.
Mineral Hill.	San Miguel.	7,050	7	.....	.....	.....	.....	.....	.....	0.97	.....	0.80	0	2	1	28	2	sw.	Agent E. P. & S. W. R. R.	
Monterey.	Otero.	4,436	3	.....	.....	.....	.....	.....	.....	1.07	.....	0.35	0	5	23	4	4	sw.	Miss Julia Hill.	
Mountainair.	Torrance.	6,547	10	49.7	-0.6	77	18	18	29	51	0.64	-0.53	0	5	14	14	3	w.	Charles E. Beasley.		
Mountain Park.	do.	.....	1	.....	.....	.....	.....	.....	.....	2.03	.....	0.83	0	5	.....	.....	.....	.....	.....	Agent E. P. & S. W. R. R.
Newman.	do.	3,989	3	.....	.....	.....	.....	.....	.....	1.00	.....	0.50	0	2	22	1	8	w.	Do.	
Noria.	Dona Ana.	4,114	3	.....	.....	84	6†	32	31	51	0.96	.....	0.35	0	5	25	6	2	sw.	Do.
Orogrande.	Otero.	4,171	3	.....	.....	84	4	.....	.....	1.95	.....									

TABLE 1.—Climatological data for October, 1912. District No. 8—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.						Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeasured.	Number of rainy days.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.					
<i>New Mexico—Cont.</i>																							
Truchas.	Rio Arriba.	7,935	3	45.5		69	1	22	23†	40	1.52		1.01	1.5	9	20	4	7	w.	Miss Myrtle Rendon.			
Tularosa.	Otero.	4,436	3					26	31	0.20		0.20	T.	1	20	5	6	sw.	I. L. Fairless.				
Vaughn.	Guadalupe.	5,952	3			72	5†	10	28	46	0.87		0.57	0.5	7	23	8	0	s.	Agent E. P. & S. W. R. R.			
Virsylvia.	Taos.	7,500	2	48.0		84	3	20	14†	55	0.17		0.08	0.6	3	18	7	6	sw.	Dr. I. N. Woodman.			
Willard.	Torrance.	6,086	50.8			71	18	15	22	46	0.60	-1.16	0.50	7.0	2	16	14	1	s.	Dr. Voiney S. Cheyney.			
Winsors.	San Miguel.	8,200	16	42.8	+ 0.8														James F. Matty.				
<i>Texas.</i>																							
Abilene.	Taylor.	1,738	27	66.6	+ 2.4	91	4	40	31	34	1.21	-1.12	0.47	0	4	15	10	6	s.	U. S. Weather Bureau.			
Albany.	Shackelford.	1,429	18	66.0	+ 1.5	97	7	30	23	48	0.49	-1.39	0.25	0	3	21	0	10	n.	N. L. Bartholomew.			
Alice.	Jim Wells.	209	1	74.4		93	5†	55	28†	31	5.20		3.20	0	3	9	5	17	n.	R. M. Boerum.			
Alpine.	Brewster.	4,482	2								0.70		0.70	0	1	26	0	5	s.	H. B. Cowles.			
Alvin.	Brazoria.	49	14	69.8		90	5†	50	23†	30	5.34	+ 0.52	0	5	12	7	12	n.	Alvin Japanese Nursery.				
Anahuac.	Chambers.	23	3									2.54		1.40	0	4				Lone Star Canal.			
Antelope.	Jack.	1										2.76		1.56	0	3	21	5	5	Paul Rudolph.			
Aspermont.	Stonewall.											2.96		2.48	0	2	26	1	4	Bryant Link Co.			
Austin.	Travis.	593	56	69.1	+ 1.0	90	7†	48	23	29	2.80	-0.03	2.16	0	4	14	11	6	se.	A. Deussen.			
Ballinger.	Runnels.	1,637	16	68.3	+ 3.8	95	4	39	14	42	1.35	-0.83	0.85	0	3	13	6	12	s.	E. M. Eubank.			
Barstow.	Ward.	2,573	5	65.2		95	9	36	16	47	0.70		0.50		2	25	3	3	e.	F. P. Ingerson.			
Bay City.	Matagorda.	53	2	74.8		96	11	46	31	40	2.20		2.45	0	7	13	3	15	n.	E. C. Quereau.			
Beaumont.	Jefferson.	29	11	72.4	+ 1.0	94	6	46	27	37	1.91	-0.92	0.76	0	5	19	0	12	n.	John Bender.			
Beeville.	Bee.	225	16	74.7	+ 2.6	94	5†	55	16†	33	4.67	+ 2.16	2.90	0	3	16	2	13	n.	L. E. Dickey.			
Big Spring.	Howard.	2,396	14	66.8	+ 2.6	92	3†	37	15	41	1.50	-0.64	1.07	0	4	20	7	4	s.	B. Reagan.			
Blanco.	Blanco.	1,350	16	70.9	+ 3.9	97	6	50	18†	39	3.83	+ 0.76	2.41	0	7	14	13	4	s.	R. C. Crist.			
Boerne.	Kendall.	1,412	20	67.4	+ 0.7	96	6	36	31	44	3.47	+ 0.49	2.20	0	4	13	8	10	s.	F. W. Schweppe.			
Booth.	Fort Bend.	81	11									4.09	+ 0.59	2.54	0	4	22	0	9	ne.	T. R. Booth.		
Bowie.	Montague.	1,113	17	68.6	+ 2.2	99	4	41	15†	37	3.95	+ 0.96	2.41	0	4	14	7	10	n.	Craig Anderson.			
Brady.	McCullough.	1,500	11																	Prof. J. O. Wallis.			
Brazoria.	Brazoria.	25	23	73.0	+ 2.8	94	11	50	26†	34	4.09	+ 0.04	3.05	0	6	23	2	6	s.	Mrs. M. A. Stevens.			
Brazos.	Palo Pinto.	801	3									0.68		0.40	0	2	12	4	5	s.	Robt. E. Boyett.		
Brenham.	Washington.	350	27	72.0	+ 2.2	95	4†	51	23†	33	3.96	+ 1.20	2.42	0	4	12	6	13	ne.	Mrs. B. F. Sloan.			
Bridgeport.	Wise.	754	3										1.22		0.63	0	4	17	6	6	s.	Claud Strange.	
Brighton.	Nueces.	12	19	76.4	+ 2.2	95	4†	53	27	41	7.72	+ 5.79	5.40	0	4	25	0	6	e.	G. H. Ritter.			
Brownsville.	Cameron.	38	48	73.8	- 0.6	90	5†	53	15	25	13.53	+ 10.32	6.34	0	9	10	19	2	s.	U. S. Weather Bureau.			
Brownwood.	Brown.	1,342	20	66.6	+ 0.9	96	4	37	16	46	1.41	-0.62	0.80	0	4	10	19	0	s.	Mrs. Pearl Smith.			
Buena Vista.	Pecos.											0.58		0	1	30	0	1		W. H. Denis.			
Cameron.	Milam.		4																J. E. Watts.				
Carmona.	Polk.	330	4	68.8		95	4†	40	27†	43	1.62		1.06	0	6	16*	9*	5*	s.	M. S. Spitzer.			
Carrizo Springs.	Dimmit.	72.7				95	4†	46	16	33	8.30		3.00	0	3	20	1*	9*	se.	M. E. Cook.			
Claytonville.	Fisher.	2,100	17	66.5	+ 2.9	93	4	35	24	40	1.78	-0.67	1.23	0	3	8	14	9	s.	Wm. Lanius.			
Clifton.	Bosque.	671	1									4.39		3.29	0	4	12	13	6	s.	R. M. Jones.		
Coleman.	Coleman.	1,710	18	71.9	+ 6.2	100	7†	42	23	43	0.88	-1.29	0.80	0	2	12	13	6	se.	J. E. Stevens.			
Collegeport.	Matagorda.	68.0																	H. A. Clapp.				
College Station.	Brazos.	308	22	72.6	+ 3.2	98	4†	48	23	36	1.64	-1.19	0.76	0	7	11	13	7	s.	Prof. G. S. Fraps.			
Colorado.	Mitchell.	2,066	18	67.0	+ 3.0	95	3	37	16†	53	0.90	-0.73	0.45	0	2				R. M. Webb.				
Columbia.	Brazoria.	34	23																R. B. Loggins.				
Columbus.	Colorado.	206	8																Mrs. Sophie Bridge.				
Corpus Christi.	Nueces.	20	25	73.5	+ 0.9	86	6	54	15	29	4.02	+ 1.97	3.33	0	5	16	7	8	e.	U. S. Weather Bureau.			
Corsicana.	Navarro.	445	23	68.0	+ 0.8	95	4	45	23†	40	5.14	+ 2.40	3.20	0	5	15	10	6	s.	D. H. Winn.			
Cotulla.	La Salle.	425	5										2.10		1.10	0	3			Holland Agricultural Co.			
Crockett.	Houston.	780	8	71.6		97	4†	47	23	35	2.20		1.42	0	5	24	2	5	s.	A. M. Rencher.			
Cuero.	De Witt.	177	22	73.8	+ 2.2	99	3†	52	23	43	5.24	+ 2.43	4.99	0	5	20	0	11	e.	A. R. Froebel.			
Dallas.	Dallas.	466	23	68.7	+ 2.8	98	4	41	24	44	1.30	-1.22	0.78	0	3	16	3	12	s.	G. A. Eisenlohr.			
Danevang.	Wharton.	145	16	73.0	+ 2.1	95	6	51	26	33	5.35	+ 0.93	3.00	0	4	23	4	4	se.	H. P. Hermansen.			
Del Rio.	Valverde.	952	6	70.2	+ 0.3	93	4	43	15	36	1.94	+ 0.45	0.97	0	6	10	15	6	se.	U. S. Weather Bureau.			
Devine.	Medina.	653	2	73.7		95	11	52	15†	34	2.41		1.30	0	4	21	3	7	s.	M. A. Keller.			
Dialtville.	Cherokee.	575	2	70.2		97	6	45	23†	36	1.84		0.90	0	6	19	8	4	e.	J. M. B. McKnight.			
Dillie.	Frio.	569	2										2.50	0	1				John W. Miller.				
Dublin.	Erath.	1,466	16	68.1	+ 2.7	96	4†	42	23	37	1.88	-0.94	0.68	0	5	8	18	5	s.	Jno. O. Shafer.			
Duval.	Travis.	820	23	71.0	+ 0.9	96	4	49	23	32	4.13	+ 1.13	2.02	0	4	22	1	8	se.	J. C. Edgar.			
Eagle Pass.	Maverick.	800	35	73.4	+ 1.9	97	9	48	15	33	3.15	+ 1.57	1.55	0	6	13	12	6	se.	Charles Tarver.			
Eastland.	Eastland.	1,420	5	69.3		100	7†	34	23†	53	0.30		0.30	0	1	10	15	6	se.	James A. Beard.			
Edna.	Jackson.	71	3																E. L. Faires.				
El Paso.	El Paso.	3,762	33	62.2	- 0.2	83	19	39	31	35	0.50	- 0.45	0.16	0	6	20	9	2	e.	U. S. Weather Bureau.			
Encinal.	La Salle.	558	4	70.4		93	8	54	16†	24	4.20		2.20	0	4	16	4	11	s.	Walter Pettit.			
Fairland.	Burnet.	1,000	23																R. L. Bush.				
Falfurrias.	Brooks.		4	75.7		98	6†	54	28	30	4.87		3.90	0	4	23	1	7	se.	W. A. Gardner.			
Flintonia.	Fayette.	465	4	72.9		98	3	50	23	33	4.21		1.70	0	5	20	3	8	s.	Fred W. Laux			

TABLE 1.—Climatological data for October, 1919. District No. 8—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.					Precipitation, in inches.					Number of rainy days, 0.10 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.	Prevailing wind direction.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmetted.					
<i>Texas—Continued.</i>																			
Hempstead.	Waller.	254	8								2.54	— 1.40	0	3	11	0	20	e.	J. H. Hancock.
Henderson.	Rusk.	500	3								0.55	0	5	17	8	6			M. Kangerga.
Hewitt.	McLennan.	664	17								4.85 + 1.50	2.70	0	3					I. H. Earle.
Hico.	Hamilton.	1									1.50	— 1.35	0	4	24	3	4	s.	John A. Eakins.
Hillsboro.	Hill.	628	9	72.1	95	4†	42	14	39	3.85	— 2.25	0	2						W. G. Escott.
Hondo.	Medina.	901	13	70.2	90	4†	52	24	30	3.51 + 1.26	2.65	0	4	20	3	8	se.	H. E. Haass.	
Houston.	Harris.	138	22	72.8 + 2.9	92	11	51	31	32	3.23 — 0.20	1.97	0	6	13	11	7	se.	U. S. Weather Bureau.	
Huntsville.	Walker.	400	28	69.7 + 1.4	92	4	45	17	33	1.47 — 1.64	0.82	0	3	16	0	15	s.	W. Y. Barr.	
Jayton.	Kent.	2									2.70	— 1.70	0	2	27	0	4	s.	Wichita Valley Ry. Co.
Jewett.	Leon.	496	8	69.8	98	4	40	15	40	3.05	— 2.25	0	2	26	3	2	n.	Earle Adkisson.	
Junction.	Kimble.	1,645	11	68.0	98	10†	34	15	54	2.55 + 1.00	2.25	0	2					Judge John S. Durst.	
Kaufman.	Kaufman.	448	13	69.8 + 2.5	96	4	42	23	35	3.45 — 0.16	1.90	0	4	21	6	4	s.	B. J. Hubbard.	
Kerrville.	Kerr.	1,650	16	67.8 + 2.4	92	3†	40	14	42	3.65 + 1.12	2.80	0	5	10	15	6	n.	Robert E. Horne.	
Killeen.	Bell.	88.4	8	68.4	97	3†	45	18†	45	7.75	— 3.80	0	5					J. E. Root, Jr.	
Knickerbocker.	Tom Green.	2,050	15	68.4	99	3	33	14†	46	0.50	— 0.40	0	2	19	8	4	s.	Jos. Tweedy.	
Kopperl.	Bosque.	576	2							1.36 — 2.23	1.00	0	2	10	11	10	n.	T. A. Johnson.	
Lagrange.	Fayette.	276									4.26	— 2.00	0	4	20	2	9	se.	August Hermes.
Lamesa.	Dawson.	2,500	2								5.02	— 5.00	0	2					S. D. Austin.
Lampasas.	Lampasas.	1,026	20	68.8 + 2.3	97	3	37	15	43	4.11 + 1.28	3.33	0	4	25	0	6	s.	Mrs. K. I. Webber.	
La Parra.	Willacy.	38	10							5.70 + 3.33	2.60	0	4					Jno. G. Kenedy.	
Laureles Ranch.	Nueces.	20	12															Matt Cody.	
Liberty.	Liberty.	38	8	71.4	93	11	44	27†	38	1.22	— 1.00	0	3	14	11	6	n.	Mrs. Fannie Sneed.	
Llano.	Llano.	1,040	21	70.0 + 1.4	93	4†	45	14	31	5.19 + 3.07	4.00	0	6	17	10	4	e.	E. W. Torrence.	
Llano Grande.	Hidalgo.	86	4	71.1	95	9†	31	45	49	4.98	— 2.48	0	3					M. D. Wardlow.	
Long Lake.	Anderson.	229	7							2.25	— 1.40	0	3	17	4	10	s.	Geo. W. Ellis.	
Longview.	Gregg.	336	26	66.9 + 0.7	91	4	44	23	34	0.81 — 2.21	0.40	0	5	20	1	10	ne.	C. A. Propst.	
Lubbock.	Lubbock.	1								2.81	— 2.09	0	5	23	6	2	se.	A. L. Paschall.	
Lufkin.	Angelina.	325	5	70.0	95	6	40	27	44	0.88	— 0.40	0	3	27	0	4	s.	T. A. King.	
Luling.	Caldwell.	418	23	72.4 + 2.1	97	6	51	23	37	4.28 + 1.83	2.70	0	7	13	4	14	s.	John Carter.	
McGregor.	McLennan.	713	2							4.25	— 4.25	0	1	23	3	5	s.	W. H. Whitley.	
McKinney.	Collin.	612	10	68.6	97	4	37	23	44	1.35 — 1.84	0.73	0	5	11	13	7	se.	H. Killingsworth.	
Marathon.	Brewster.	4,043	2	61.8	87	5	38	15	32	0.13	— 0.05	0	2	14	11	6	s.	Rev. A. P. Willis.	
Marble Falls.	Burnet.	771	4							6.46	— 4.60	0	5	16	1	14	n.	B. E. Cochran.	
Marfa.	Presidio.	4																R. K. Colquitt.	
Marshall.	Harrison.	375	11	67.6	93	10	41	27	40	0.55 — 2.24	0.30	0	4	4	20	6	ne.	Lee Scott.	
Matagorda.	Matagorda.	12	2							4.42	— 3.04	0	5	23	2	6	s.	W. E. McNabb.	
Mexia.	Limestone.	537	8	68.4	97	4†	43	23†	40	4.70	— 2.57	0	5	7	12	12	s.	Miss Josephine Newman.	
Midland.	Midland.	5	66.6	90	4†	40	23	37	30	0.89	— 0.77	0	2	14	13	4	se.	J. Giesecke.	
Mission.	Hidalgo.	140	2	75.6	96	4	56	15†	30	5.99	— 2.50	0	4	9	12	10	se.	J. Harvey Clark.	
Mont Belvieu.	Chambers.	65	2							2.21	— 1.02	0	5	14	12	5	se.	Myron J. Conway.	
Montell.	Uvalde.									3.07	— 1.29	0	5	9	13	9	se.	A. R. Shearer.	
Mount Blanco.	Crosby.	2,750	23	62.2 + 0.8	89	6	34	21	42	1.85 — 0.26	1.35	0	2	18	4	9	s.	A. G. Beecroft.	
Nacogdoches.	Nacogdoches.	271	13	67.6 + 1.5	92	4†	42	27†	40	0.91 — 2.50	0.40	0	3	15	5	11	n.	Geo. W. Smith.	
New Braunfels.	Comal.	720	23	71.0 + 2.1	93	6	53	23	36	2.51 + 0.15	1.11	0	4	14	10	7	s.	Miss Mary Hofmann.	
Palestine.	Anderson.	510	30	68.6 + 2.4	93	4	46	23	32	2.69 — 0.91	1.58	0	7	13	12	6	ne.	J. Giesecke.	
Panter.	Hood.	1,000	23							1.43 — 1.29	0.69	0	5	7	1	1		U. S. Weather Bureau.	
Pearlsall.	Frio.	629	2							1.76	— 1.32	0	3					E. H. Snyder.	
Pierce.	Wharton.	102	6	71.6	95	3†	46	23	37	3.54	— 2.24	0	3	17	0	14	se.	Earnest De Villiss.	
Plainview.	Hale.	3,370	16	60.4 — 0.3	88	4†	31	22	46	0.53 — 1.07	0.28	0	4	22	3	6	s.	R. B. Pointer.	
Port Lavaca.	Calhoun.	20	11	72.2 + 0.5	92	3	53	15	29	4.53 + 0.49	2.07	0	5	22	3	6	s.	J. F. Sanders.	
Post.	Garza.	2,700	2							3.47	— 3.35	0	3	17	4	10	n.	J. H. Bickford.	
Putnam.	Callahan.	1,591	1							0.90	— 0.35	0	3					W. T. Mann.	
Raymondville.	Cameron.									7.62	— 4.90	0	7	12	8	11	se.	S. M. Davis.	
Ricardo.	Nueces.	57	3							1.75	— 1.05	0	4	17	0	14	n.	C. H. Pease.	
Riverside.	Walker.	169	8							1.00	— 0.50	0	4	11	8	12	s.	P. L. Shaffer.	
Rockland.	Tyler.	136	8							1.76	— 1.00	0	3	19	4	8	e.	Mrs. C. W. Wigdon.	
Rockport**.	Aansas.	12	11	73.4 + 0.4	86	5†	58	14†	16	4.50 + 1.03	0	0	3	19	4	8	e.	Mack Dunkin.	
Rossville.	Atascosa.	558	5	73.24	99	3	53	12†	34	3.04 — 0.70	0	0	5	13	12	6	se.	Mrs. G. Grewe.	
Runge.	Karnes.	308	17							4.00 + 1.40	0	0	2					W. F. M. Ross.	
Sabinal.	Uvalde.	964	8	70.8	90	4†	49	15	33	4.63	— 1.90	0	3	10	7	14	se.	Reiffert & Frobese.	
Salado.	Bell.	2								5.00	— 3.40	0	2	18	4	9	s.	Jas. Johnson.	
San Angelo.	Tom Green.	1,847	21	69.1 + 3.4	94	9†	42†	15	37†	0.92 — 1.00	0.92	0	1	18†	3	1	s.	L. M. Crockett.	
San Antonio.	Bexar.	701	27	71.9 + 2.7	93	3	51	31	32	2.74 + 1.25	2.41	0	4	13	10	8	n.	Sam Crowther.	
San Augustine.	San Augustine.	360	3	68.9	96	10	37	28	46	1.01	— 0.54	0	5	13	10	8	s.	U. S. Weather Bureau.	
San Juanito.	Hidalgo.	3	78.04	98	11	50	16	22†	46	2.78	— 2.78	0	6	3	0	2	se.	F. A. Wilson.	
San Marcos.	Hays.	588	19	70.3 + 2.1	93	4†	52	24	36	2.80 — 0.19	1.95	0	4	12	0	19	n.	J. B. McAllen.	
San Saba.	San Saba.	1,712	11	67.6 + 2.0	94	4	34	14	41	2.51 — 0.09	1.33	0	3	17	10	4	s.	Miss L. C. Ford.	
Santa Gertrudes.	Nueces.									3.98	— 2.48	0	3	19	3	9	s.	Jas. Burns.	
Sealy.	Austin.	201	1							2.00	— 0.78	0	5	13*	6*	7*	e.	J. B. Wright, jr.	
Seymour.	Baylor.	1,320	6	67.0	96	4	39	24	36	1.79	— 0.53	0	4	13	10	8	n.	O. H. Albert.	
Snyder.	Seury.	1	63.9	91	4	36	23†	40	28	2.80	— 1.53	0	4	21	3	7	s.	S. C. Lee.	
Somerville.	Burleson.	251	3	72.6	97	4	48	23	40	1.60	— 1.60	0	3	21	3	7	s.	J. Allen Weaver.	
Sonora.	Sutton.	2,200	8	68.4	93	2	39	15	39	0.57	— 0.22	0	3	21b	0b	8b	s.	Ed. Herbst.	
Spur.	Dickens.	2,300	1	63.6	96	4	37	23†	40	1.87	— 1.35	0	3	18	11	2	s.	C. R. Myers.	
Stamford.	Jones.	1	63.8	88	3†	38	23	32	30	2.39	— 0.34	0	3	21	6	4	se.	J. D. Reagan.	
Stowell.	Chambers.	1								3.86	— 2.31	0	5	13*	6*	7*	e.	H. Pratt.	
Sugarland.	Fort Bend.	79	11	72.5° + 3.0	93	4	54	23	31	2.00	— 1.00	0	3	23	1	7	s.	Arthur Bailey.	
Sutherland Springs.	Wilson.	424	2							3.18	— 2.32	0	6	11	14	6	se.	Paul C. Rudat.	
Temple.	Williamson.	583	11	70.1 + 1.8	94	4	46	31	33	0.62	— 2.70	0	6	16	3	12	s.	L. V. Bigham.	
Theodore.	Bell.	630	22	69.2 + 2.1	94	6	47	23	33	4.14 + 1.80	1.20	— 1.00	0	2				U. S. Weather Bureau.	
Thurber.	Winkler.	2								0.34	— 0.18	0	3					W. Goodrich Jones.	
Tivoli.	Erath.	2								3.10	— 1.90	0	2	5	19	7	se.	W. B. Oates.	
Uvalde.	Reifugio.	937	17							0.85	— 0.75	0	2					J. K. Ball.	
Valentine.	Jeff Davis.	4,421	6	</td															

a, b, c, etc., indicate respectively 1, 2, 3, etc., days missing from the record.

** Temperature extremes are from observed readings of the dry bulb; means are computed from observed readings.
+ Also on other date.

[†] Also on other dates
T. Precipitation is less

1. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 2.—*Daily precipitation for October, 1912. District No. 8, Texas and Rio Grande Valley.*

TABLE 2.—*Daily precipitation for October, 1912. District No. 8—Continued.*

TABLE 2.—*Daily precipitation for October, 1912. District No. 8—Continued.*

* Precipitation included in that of the next measurement.

* Precipitation included in that of the
† Separate dates of falls not recorded.

Precipitation for the 24 hours ending on the morning when it is measured.

T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 3.—Maximum and minimum temperatures for October, 1912. District No. 8, Texas and Rio Grande Valley.

Date.	Colorado.				New Mexico.										Texas.													
	Garnett.		San Luis.		Agricultural College.		Carlsbad.		Fort Stanton.		Mountain-air.		Rosedale.		Roswell.		Santa Fe.		Santa Rosa.		Abilene.		Big Springs.		Brownsville.		Corpus Christi.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1.	63	36	67	38	61	53	51	48	57	46	62	42	55	42	54	49	61	44	65	45	78	52	70	45	73	64	78	65
2.	68	31	71	42	74	47	66	49	68	58	65	40	63	38	69	53	64	43	78	44	82	61	85	60	82	68	83	70
3.	70	28	71	28	53	78	48	76	41	71	37	70	44	79	52	70	42	82	44	91	58	92	55	95	58	92	69	
4.	70	26	67	36	81	51	79	49	80	38	70	41	66	45	81	51	68	38	80	44	91	63	92	60	89	64	82	69
5.	68	33	65	34	77	52	79	53	70	47	65	40	60	40	76	48	58	38	75	48	91	69	91	67	90	74	82	77
6.	65	27	61	38	80	44	81	50	71	38	71	44	68	40	80	45	65	42	77	48	91	74	91	70	89	73	86	77
7.	67	35	61	34	72	49	76	49	66	42	70	40	67	40	61	49	62	51	71	48	89	65	86	65	89	70	83	79
8.	62	25	58	39	76	57	76	56	68	71	37	64	44	78	56	64	40	78	37	85	65	80	62	88	67	85	74	
9.	65	19	58	27	78	45	82	52	66	36	70	34	65	42	79	46	60	36	71	40	87	71	86	68	90	72	86	76
10.	56	27	49	29	73	46	84	48	65	46	68	30	65	42	79	44	50	36	71	43	89	70	88	67	90	72	83	78
11.	57	19	60	26	71	42	75	41	72	31	66	24	60	40	70	44	59	30	68	41	78	57	79	56	90	74	84	78
12.	61	16	61	24	64	45	74	40	59	34	64	28	62	28	60	44	58	40	63	46	64	52	66	58	82	65	82	65
13.	60	18	63	23	63	43	76	43	57	35	64	27	58	32	67	44	58	33	66	34	70	47	70	51	73	58	81	64
14.	65	14	69	20	61	47	71	36	63	31	62	22	52	31	67	36	60	32	69	32	72	40	76	38	75	58	78	61
15.	63	17	68	20	70	41	75	37	75	29	68	22	49	34	70	36	61	34	70	39	72	41	73	37	74	53	71	54
16.	65	18	66	27	72	36	74	36	72	26	64	30	55	35	71	33	64	37	76	30	60	50	66	59	69	61	82	61
17.	66	22	71	23	77	36	81	33	73	29	71	37	62	35	73	35	63	38	79	39	76	50	81	56	84	63	72	65
18.	67	22	74	24	80	39	91	40	75	33	77	34	70	39	85	36	70	41	83	31	89	55	92	62	86	69	76	64
19.	67	20	62	27	83	41	87	39	79	30	75	28	70	40	73	42	64	43	71	48	82	53	87	55	83	68	82	71
20.	65	20	62	30	80	40	88	41	73	30	61	36	68	42	83	39	64	39	77	44	85	67	89	64	85	65	80	70
21.	55	30	61	30	76	38	83	39	70	40	65	35	70	38	71	37	59	35	69	39	85	51	80	52	86	70	79	71
22.	59	10	65	16	74	38	76	35	69	29	71	20	68	40	62	33	61	31	66	27	63	43	80	52	77	67	76	64
23.	63	15	63	24	70	42	72	36	74	28	72	28	64	35	70	32	61	36	78	32	64	41	67	39	72	62	70	62
24.	60	15	63	28	77	54	83	46	72	40	70	30	61	36	70	48	62	39	75	44	75	49	75	40	76	62	73	63
25.	62	15	69	23	77	54	77	47	76	39	66	28	64	40	71	45	64	39	72	37	69	50	79	49	74	64	84	64
26.	64	22	70	23	78	44	80	39	75	31	70	30	68	42	77	37	65	40	81	33	77	44	80	39	78	64	77	63
27.	65	23	64	28	78	42	82	38	73	29	74	38	64	40	78	36	66	44	78	37	82	51	84	46	80	59	79	62
28.	48	31	46	28	71	50	85	47	68	52	71	43	62	46	81	52	55	69	45	84	57	86	58	82	57	78	68	
29.	49	15	54	15	66	31	79	38	71	35	66	18	53	25	65	36	51	30	59	36	76	58	77	49	83	64	80	68
30.	48	37	44	29	67	32	74	38	59	29	62	30	52	30	69	32	49	31	57	33	79	50	82	46	83	68	79	72
31.	38	24	47	20	62	32	68	35	55	28	58	25	50	25	52	35	40	29	51	34	51	40	73	44	85	70	85	56
Mns.	61.4	22.9	62.3	27.5	73.6	44.0	77.5	42.8	69.2	35.7	67.5	31.9	62.1	37.6	72.0	41.9	60.3	37.6	71.8	39.8	78.3	55.0	80.8	52.8	82.1	65.6	79.3	67.7
Texas.																												
Date.	Del Rio.	El Paso.	Fort McIntosh.	Fort Stockton.	Fort Worth.	Galveston.	Hallettsville.	Houston.	Lufkin.	Palestine.	Plainview.	San Antonio.	Seymour.	Taylor.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1.	74	60	59	53	76	62	71	51	77	55	65	83	63	81	58	88	58	78	56	89	45	80	64	80	54	81	59	
2.	84	63	72	55	92	62	81	52	83	60	66	88	63	87	58	81	57	74	54	88	60	84	60	86	59	86	60	
3.	90	60	79	56	90	64	85	55	94	62	87	71	92	60	91	66	91	55	93	61	94	59	92	59	95	69		
4.	93	67	82	59	99	68	90	58	94	64	83	72	94	61	92	67	94	55	93	64	88	55	92	60	96	66		
5.	90	74	79	54	100	60	99	59	71	55	65	83	63	81	58	83	63	78	56	90	50	91	70	91	69	99		
6.	89	74	81	50	100	77	90	66	90	71	84	77	95	75	85	71	95	60	87	57	93	74	92	72	93	72		
7.	90	74	76	56	99	69	89	66	90	71	85	76	91	70	88	67	93	60	88	67	96	73	90	66	90	72		
8.	90	71	80	58	100	72	89	60	89	70	84	74	92	68	87	66	91	56	89	67	90	68	98	66	90	64		
9.	92	71	82	56	99	72	91	61	90	70	85	78	92	70	90	69	92	56	89	67	94	54	91	69	98	66		
10.	91	71	76	56	99	74	92	65	88	72	85	79	93	71	90	68	91	60	88	68	91	71	91	70	97			
11.	84	70	67	44	100	70	78	50	86	62	85	78	92	70	92	71	94	63	90	68	75	45	90	72	81	64		
12.	74	54	61	48	101	72	65	52	82	73	75	65	81	67	91	65	88	57	94	40	84	56	88	47	72	52		
13.	62	54	59	43	89	66	67	44	72	55	66	79	61	77	65	76	53	74	50	70	46	74	55	70</td				